

When the inflator uses the coolant of the present invention, a stable actuating performance can be obtained irrespective of a direction of the coolant. As the members other than the coolant means, such as known gas generating means, ignition means and the like can be used in the inflator.

The air bag inflator is accommodated in a module case together with an air bag (bag body) which introduces therein a gas generated by the inflator to inflate, thereby making an air bag apparatus. In this air bag apparatus, the inflator is actuated on an impact sensor detecting the impact, and a combustion gas is discharged from a gas discharging port of the housing. The combustion gas flows into the air bag to rupture the module cover and expands, thereby forming cushion absorbing the impact between a passenger and a hard structural component in the vehicle.

The coolant of the present invention is made using wire rods and compressed at least in the axial direction to obtain a desired size, strength and pressure loss, and thereby realizing a coolant in which unevenness in the density in the axial direction is reduced and the need of arranging a disposing direction when disposing in the housing is eliminated. And by adopting the above coolant, an air bag inflator with a stable operating output can be realized.

Brief Description of the Drawings

Fig. 1 is a perspective view of a cylindrical wire mesh in
by folding one end of the cylindrical body outwardly and repeatedly;

Figs. 3 are schematic views showing compressing process of the coolant of the invention;

Fig. 4 is a schematic view of a plate body formed by pressing the cylindrical body shown in Fig. 1 in the radial direction;

Fig. 5 is a schematic view of the molded product formed by rolling the plate body into a cylindrical shape many times;

Fig. 6 is a sectional view of an essential portion showing a measuring method of the coolant;

Fig. 7 is a sectional view showing one embodiment of an inflator of the present invention;

Fig. 8 is a sectional view showing another embodiment of the inflator of the invention; and

Fig. 9 is a view showing a structure of an air bag apparatus of the present invention.

Description of reference Numerals

3	housing
4	ignition means
5	transfer charge
6	gas generating agent
7	coolant
14	initiator collar
22	combustion chamber
23	ignition means accommodating chamber
44	plate body